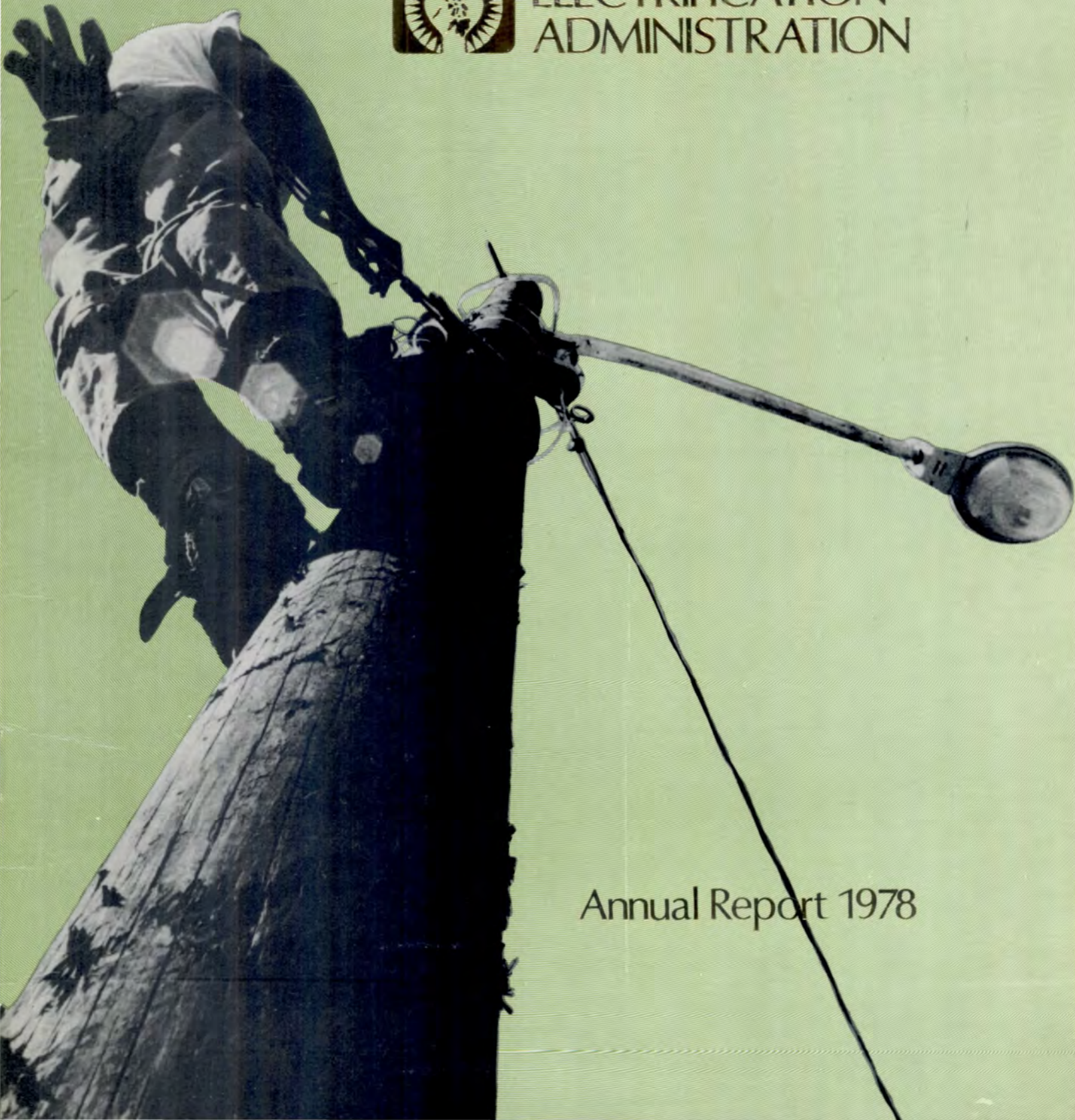


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NEA NATIONAL
ELECTRIFICATION
ADMINISTRATION



Annual Report 1978

NEA BOARD OF ADMINISTRATORS

1978

GERONIMO Z. VELASCO

Chairman

ALFREDO L. JUINIO

Member

JAIME C. LAYA

Member

CEFERINO S. CARREON

Member

CONRADO D. DEL ROSARIO

Member

LEONARDO G. COLOSO

Member

1979

IMELDA ROMUALDEZ MARCOS

Chairman

ALFREDO L. JUINIO

Member

JAIME C. LAYA

Member

CEFERINO S. CARREON

Member

CONRADO D. DEL ROSARIO

Member

PEDRO G. DUMOL

Member

**REPUBLIKA NG PILIPINAS
PAMBANSANG PANGASIWAAN NG ELEKTRIPIKASYON
(National Electrification Administration)
Lungsod ng Quezon**

March 31, 1979

**His Excellency
President Ferdinand E. Marcos
Malacañang, Manila**

Sir:

**I have the honor to submit the Annual Report
of the National Electrification Administration for Calendar
Year 1978.**

Respectfully yours,

**IMELDA ROMUALDEZ MARCOS
Chairman**

FOREWORD

The year 1978 saw the implementation of the National Electrification Program continue to reach out to more rural households. During the year, over 192,000 families in 651 municipalities and 7,014 barangays started to enjoy the benefits of round-the-clock, low-cost electric service. At the end of the year, the total number of households served by electric cooperatives all over the country stood at 845,137.

To sustain the rapid advance of electrification to all corners of the country, President Ferdinand E. Marcos, by issuing Presidential Decree No. 1370, increased the authorized capital stock of the National Electrification Administration (NEA) from P1.0 billion to P2.0 billion. In addition, the Government obtained four electrification loans from USAID, the World Bank, the OECF (Japan) and KFW (Federal Republic of Germany). These loans substantially augment existing loans from the USAID which, heretofore, has been the principal source of foreign funding for the rural electrification effort.

The viability of the electric cooperative systems gained a new dimension as the initial group of cooperatives completed their 5-year loan grace period and actually began paying

amortizations to NEA.

Started only 3 years ago, the NEA international program for training in the planning and implementation of rural electrification programs for developing countries has expanded. To date, 131 representatives from Southeast Asian, African and Latin American countries have participated in this program - a distinct world-wide recognition of the effectiveness of the Philippine approach to rural electrification on a nationwide basis.

The year 1978 also saw the NEA attached to the Ministry of Energy by virtue of Presidential Decree No. 1206. On 9 February 1979, however, Letter of Implementation No. 80 transferred the NEA to the Office of the President. The Minister of Human Settlements was designated Chairman of the NEA Board of Administrators.

The coming years promise an ever increasing scope and magnitude of NEA participation in the implementation of national development programs. This certainly will heighten the role of electric cooperatives not only as bringers of light and power, but also as potent and dependable instruments for upgrading the quality of life of our people.

STATUS OF I M P L E M E N T A T I O N



STATUS OF NATIONAL ELECTRIFICATION

TOWNS

As of December 31, 1978

Region	Potential	Co-op	Non-Co-op	Total	Per cent-Electrified
I	175	113	25	138	79
II	113	23	12	35	31
III	120	91	25	116	97
IV	234	70	95	165	71
V	115	76	9	85	74
VI	130	71	24	95	73
VII	131	32	42	74	56
VIII	138	37	35	72	52
IX	86	24	16	40	47
X	119	38	18	56	47
XI	90	30	26	56	62
XII	85	46	6	52	61
Total	1,536	651	333	984	64

HOUSE CONNECTIONS

As of December 31, 1978

Region	Potential	Co-op	Non-Co-op	Total	Per Cent-Electrified
I	506,300	142,264	44,175	186,439	37
II	295,200	22,396	4,304	26,700	9
III	651,700	232,368	174,793	407,161	63
IV	1,573,500	123,248	833,346	956,594	61
V	497,100	81,181	1,507	82,688	17
VI	596,900	76,908	30,921	107,829	18
VII	514,900	17,191	73,466	90,657	18
VIII	386,700	33,673	7,653	41,326	11
IX	340,900	29,644	3,793	33,437	10
X	370,600	31,034	19,720	50,754	14
XI	485,700	29,169	43,565	72,734	15
XII	324,200	26,061	22,867	48,928	15
Total	6,543,700	845,137	1,260,110	2,105,247	32

1978 ACCOMPLISHMENTS

House Connections	192,473
Towns Energized	110
Barangays Energized	1,278
Co-ops Organized	10
Amount of Loan Agreements Signed	P351 million
Training Activities Conducted	274
No. of Participants Trained	9,184
Feasibility Studies Completed	4
Distribution Systems Completed	16
Power Plants Completed	6
Transmission Systems Completed	2
A & E Studies Completed	13
Equipment and Materials Received	\$10 million
Poles Delivered	103,140
Wires (KM) Delivered	15,456
Co-op Newsletters Set Up	10

ENERGIZATION

Energization	As of Dec. 77	CY 1978	As of Dec. 78
No. of Co-ops Energized	78	10	88
No. of Towns Energized	541	110	651
No. of Barangays Energized	5,736	1,278	7,014
No. of Houses Connected	652,664	192,473	845,137

STATUS OF ENERGIZATIONS

(As of December 31, 1978)

COOPERATIVE	TOWNS			BARANGAYS			HOUSE CONNECTIONS		
	As of Dec '77	CY '78	As of Dec '78	As of Dec '77	CY '78	As of Dec '78	As of Dec '77	CY '78	As of Dec '78
Region I									
1. Ilocos Norte	20	—	20	317	30	347	28,025	3,723	31,748
2. La Union	18	—	18	302	25	327	20,156	2,578	22,734
3. Abra	12	4	16	107	21	128	6,479	1,338	7,817
4. Benguet	8	—	8	129	3	132	18,098	170	19,268
5. Ilocos Sur	26	—	26	279	63	342	21,375	4,877	26,252
6. Mt. Province	1	—	1	2	—	2	542	83	625
7. W. Pangasinan	9	—	9	73	10	83	5,784	1,334	7,118
8. C. Pangasinan	14	1	15	194	60	254	10,944	7,658	26,702
Region II									
9. Isabela	12	—	12	132	3	135	8,261	2,979	11,240
10. Cagayan I	8	1	9	65	1	66	6,040	2,501	8,541
11. Cagayan II		1	1					959	959
12. Nueva Vizcaya	1	—	1	5	—	5	1,582	74	1,656
Region III									
13. Bataan	12	—	12	254	31	285	26,043	3,480	29,523
14. Bulacan I	6	—	6	119	4	125	27,265	3,700	30,965
15. Bulacan II	4	—	4	48	2	50	7,209	1,616	8,825
16. Nueva Ecija I	10	2	12	108	41	156	24,996	7,660	32,656
17. Nueva Ecija II	10	1	11	49	61	110	11,473	4,148	15,621
18. Pampanga	18	—	18	222	12	234	56,032	6,558	62,590
19. Zambales	13	—	13	170	4	174	18,243	2,385	20,628
20. Tarlac	14	—	14	142	33	175	16,904	2,720	19,624
Region IV									
21. Batangas I	10	—	10	99	17	116	17,393	2,579	19,972
22. Batangas II		7	7		71	71		16,186	16,186
23. Cavite	6	—	6	58	4	62	27,445	3,059	30,504
24. Laguna	11	—	11	93	1	94	15,246	417	15,663
25. Marinduque	3	1	4	23	13	36	1,542	478	2,020
26. Mindoro Occ.	3	1	4	15	8	23	1,860	1,666	3,526
27. Mindoro Or. I	6	—	6	76	7	83	5,074	779	5,853
28. Palawan	1	—	1	8	7	15	1,948	888	2,836
29. Rizal I (Talim)	1	—	1	37	—	37	4,481	340	4,821
30. Rizal II	5	—	5	40	1	41	7,335	616	7,951
31. Quezon I	11	2	13	97	33	130	8,520	4,072	12,592
Region V									
32. Albay	14	—	14	137	19	156	19,880	4,628	24,508
33. Camarines Sur I	10	—	10	100	9	109	5,182	2,393	7,575
34. Camarines Sur II	8	—	8	60	29	89	9,500	2,528	12,028
35. Camarines Sur III	5	1	6	66	3	69	5,335	1,464	6,799
36. Camarines Sur IV	5	2	7	17	70	87	1,728	3,606	5,334
37. Camarines Norte	10	2	12	47	32	74	7,027	2,257	9,284
38. Catanduanes	5	1	6	64	17	81	4,594	811	5,405
39. Sorsogon I	7	1	8	89	23	112	2,369	2,675	5,044
40. Sorsogon II	1	4	5	5	8	13	2,695	2,509	5,204
Region VI									
41. Aklan	11	4	15	54	34	88	5,236	2,870	8,106
42. Antique	8	—	8	83	7	90	1,877	795	2,672
43. Capiz	14	1	15	141	8	149	12,500	1,462	13,962
44. Iloilo I	15	—	15	171	29	200	8,712	2,190	10,902
45. Iloilo II	4	5	9	8	17	25	810	1,600	2,410
46. VRESKO	5	—	5	53	—	53	16,162	950	17,112
47. Central Negros	2	2	4	6	4	10	2,910	18,834	21,744

STATUS OF ENERGIZATIONS

(As of December 31, 1978)

COOPERATIVE	TOWNS			BARANGAYS			HOUSE CONNECTIONS		
	As of Dec '77	As of CY '78	As of Dec '78	As of Dec '77	As of CY '78	As of Dec '78	As of Dec '77	As of CY '78	As of Dec '78
Region VII									
48. Negros Or. I		7	7		49	49		2,266	2,266
49. Negros Or. II	1	3	4	34	—	34	6,092	610	6,702
50. Bohol I	10	1	11	94	7	101	4,185	579	4,764
51. Cebu I	8	2	10	49	17	66	1,810	1,649	3,459
Region VIII									
52. Samar I		1	2	5	8	13	1,442	609	2,051
53. Samar II	1	3	4	6	4	10	2,572	458	3,030
54. Leyte I	12	—	12	83	11	94	10,406	989	11,395
55. Leyte II	3	—	3	37	5	42	10,134	1,527	11,661
56. Leyte III	3	3	6	12	2	14	1,147	584	1,731
57. Leyte IV	1	2	3		2	2	208	593	801
58. So. Leyte	6	1	7	75	4	79	2,409	695	3,004
Region IX									
59. Sulu	3	—	3	12	—	12	2,610	231	2,841
60. Zamboanga City	1	—	1	30	4	34	12,447	2,418	14,865
61. Alicia	1	—	1	5	—	6	395	47	442
62. Cagayan de Sulu	1	—	1	6	—	6	203	31	234
63. Tawi-Tawi	1	—	1	9	—	9	464	254	718
64. Basilan	3	—	3	22	10	32	2,268	655	2,923
65. Zambo. Sur	8	2	10	72	28	100	4,957	2,314	7,271
66. Zambo. Norte		4	4		12	12		350	350
Region X									
67. MORESCO I	10	1	11	117		117	9,815	554	10,369
68. Misamis Occ. II	2	6	8	16	112	128	3,900	4,137	8,037
69. Agusan Norte	2	1	3	7	6	13	3,212	2,616	5,828
70. Surigao Norte		2	2					2,200	2,200
71. MORESCO II		2	2		4	4		1,239	1,239
72. Bukidnon I		5	5		1	1		520	520
73. Misamis Occ. I		7	7		7	7		2,841	2,841
Region XI									
74. Davao del Norte	7	3	10	38	15	53	4,529	3,332	7,861
75. Davao del Sur	9	2	11	28	5	33	4,541	3,321	7,862
76. Surigao del Sur	2	—	2	13	—	13	6,783	—	6,783
77. So. Cotabato I	1	3	4	2	9	11	2,968	1,171	4,139
78. So. Cotabato II		2	2					824	824
79. Sultan Kudarat	1	—	1		5	5	332	1,368	1,700
Region XII									
80. Lanao del Norte	12		12	104	26	130	7,762	2,375	10,137
81. Lanao del Sur	23	1	24	405	35	430	8,494	1,455	9,949
82. No. Cotabato		1	1		2	2		980	980
83. Maguindanao	8	1	9	40	14	54	3,462	1,533	4,995
Special Project									
84. Sapang Palay				5	8	13	5,832	718	6,550
85. San Jose City	1	—	1	5	—	5	2,620	—	2,620
86. Lubang	1	—	1				560	—	560
87. PRESCO				31	1	32	2,473	293	2,766
88. Infanta	1	—	1	1	—	1	720	44	764
TOTAL	541	110	651	5,736	1,278	7,014	652,664	192,473	845,137

LOAN AGREEMENTS

	As of Dec. 77	CY 1978	As of Dec. 78
Loan Agreements Signed	109	14	123
Loan Amount (P-M)	1,407	351	1,758

STATUS OF LOAN RELEASES

(in Thousand Pesos)

As of December 31, 1978

COOPERATIVE	Peso Fund Releases	E/M Releases	Total Releases
Region I			
1. Ilocos Norte	22,674	18,344	41,018
2. Ilocos Sur	14,551	10,605	25,156
3. Abra	9,908	8,908	18,816
4. Benguet	14,959	6,142	21,101
5. La Union	10,909	9,811	20,720
6. Mt. Province	1,633	1,675	3,308
7. Pangasinan I	9,492	9,006	18,498
8. Pangasinan II	9,465	2,935	12,400
9. Pangasinan III	—	—	—
Region II			
10. Cagayan I	11,353	18,507	29,860
11. Cagayan II	2,339	50	2,389
12. Cagayan Valley	301	—	301
13. Ifugao	6	—	6
14. Isabela I	12,973	20,075	32,868
15. Isabela II	1,328	63	1,391
16. Kalinga-Apayao	349	165	514
17. Quirino	—	—	—
18. Nueva Vizcaya	2,409	953	3,362
Region III			
19. Bataan	12,353	8,392	20,745
20. Bulacan I	10,776	9,188	19,964
21. Bulacan II	4,808	1,636	6,444
22. Nueva Ecija I	13,284	11,767	25,051
23. Nueva Ecija II	8,022	4,669	12,691
24. Pampanga	19,241	10,469	29,710
25. Tarlac	8,089	3,834	11,923
26. Zambales	9,542	8,723	18,265
27. PRESCO	111	223	334
Region IV			
28. Sapang Palay	1,834	2,686	4,520
29. Batangas I	9,400	12,086	21,486
30. Batangas II	13,730	495	14,225
31. Cavite	10,379	9,988	20,367
32. Laguna	8,065	6,709	14,774
33. Lubang	996	402	1,398
34. Marinduque	9,809	4,030	13,839
35. Occ. Mindoro	8,951	5,912	14,863
36. Or. Mindoro I	15,770	24,178	39,948
37. Or. Mindoro II	1,123	172	1,295
38. Palawan	12,876	20,947	33,823
39. Quezon	12,576	10,532	23,108
40. Rizal I (Talim)	5,770	1,554	7,324
41. Rizal II	5,635	1,492	7,127
Region V			
42. Albay	19,250	13,461	32,981
43. Camarines Norte	10,814	5,569	16,383
44. Camarines Sur I	8,366	7,812	16,178
45. Camarines Sur II	10,418	2,342	12,760
46. Camarines Sur III	3,923	1,843	5,766
47. Camarines Sur IV	4,340	3,276	7,616

COOPERATIVE	Peso Fund Releases	E/M Releases	Total Releases
48. Catanduanes	11,769	7,360	19,129
49. Masbate	911	305	1,216
50. Sorsogon I	9,404	5,777	15,181
51. Sorsogon II	4,306	2,469	6,775
Region VI			
52. Aklan	14,347	10,947	25,294
53. Antique	9,686	5,961	13,647
54. Capiz	22,761	33,442	56,203
55. Iloilo I	11,391	11,203	22,594
56. Iloilo II	6,055	4,210	10,265
57. VRESCO	3,639	4,718	8,357
58. Central Negros	48,029	34,361	82,390
59. Negros Occ. III	1,183	167	1,350
Region VII			
60. Bohol	10,909	8,183	19,092
61. Cebu	9,100	4,207	13,307
62. Negros Or. I	8,150	5,482	13,632
63. Negros Or. II	8,138	939	9,077
Region VIII			
64. DORELCO	20,831	30,597	51,428
65. Leyte II	14,863	4,297	19,160
66. Leyte III	2,691	1,367	4,058
67. Leyte IV	1,292	491	1,783
68. Leyte V	146	—	146
69. So. Leyte	8,585	6,392	14,977
70. Samar I	5,229	3,247	8,476
71. Samar II	13,303	14,984	28,287
72. Ea. Samar	—	—	—
73. No. Samar	—	—	—
Region IX			
74. Alicia	1,072	666	1,738
75. Basilan	5,587	2,435	8,022
76. Cagayan de Sulu	1,051	977	2,028
77. Sulu	5,271	2,126	7,397
78. Tawi-Tawi	1,236	1,218	2,454
79. Zambo. City	16,272	22,969	39,241
80. Zambo. Norte	5,568	1,817	7,385
81. Zambo. Sur	8,536	3,878	12,414
Region X			
82. Agusan Norte	5,664	1,947	7,611
83. Agusan Sur	185	—	185
84. Bukidnon I	1,639	1,116	2,755
85. Bukidnon II	95	—	95
86. Misamis Occ. I	8,200	5,206	13,406
87. Misamis Occ. II	4,388	1,748	6,136
88. Misamis Or. II	2,573	1,309	3,882
89. Surigao Norte	4,630	75	4,705
Region XI			
90. Davao Norte	14,850	9,647	24,497
91. Davao Sur	6,741	5,894	12,635
92. Davao Or.	277	—	277
93. Cotabato Sur I	4,016	2,109	6,125
94. Cotabato Sur II	2,667	934	8,601
95. Sultan Kudarat	2,102	1,010	3,112
96. Surigao Sur	9,446	4,503	13,949
Region XII			
97. Cotabato	1,212	764	1,976
98. Cotabato-Bukidnon	480	—	480
99. Maguindanao	4,539	5,972	10,511
100. Lanao Norte	8,793	13,174	21,967
101. Lanao Sur	11,814	11,641	23,455
GRAND TOTAL	768,612	605,867	1,374,479

CONSTRUCTION

	No. of Completed Projects			Project Cost (P-M)		
	As of Dec. 77	CY 1978	As of Dec. 78	As of Dec. 77	CY 1978	As of Dec. 78
Architecture & Engineering	44	13	74	37	16	53
Headquarters Facilities	86	—	44	80	—	80
Transmission System	2	2	4	1	1	2
Distribution System	38	16	54	26	13	39
Power Plant	23	6	29	33	16	49

STATUS OF A & E WORKS COMPLETED PROJECTS FOR CY 1978

	A & E FEE X 1000	A & E FIRM
1. Capiz.	498	DCCD
2. Rizal II	530	TAP
3. Quezon1	880	TAP
4. Central Pangasinan	920	TAP
5. Camarines Sur IV	570	DCCD
6. Sorsogon II	568	DCCD
7. Pampanga ^a	1,079	TAP
8. Misamis Occ. I ^a	110	AWIA
9. Zamboanga Norte ^a	191	AWIA
10. Zamboanga Sur ^a	150	AWIA
11. Bulacan II	1,070	DCCD
12. MORESCO II	690	AWIA
13. Cavite	400	EDCOP
14. Laguna	375	DCCD
15. Iloilo II	1,197	DCCD
16. Catanduanes ^a	236	TAP
17. Cebu.	616	DCCD
18. Bukidnon	407	AWIA
19. Nueva Ecija II	639	EDCOP
20. Samar I	411	EDCOP
21. Samar II	930	EDCOP
22. Leyte II	366	EDCOP
23. Leyte III	530	EDCOP
24. Aklan	488	DCCD
Special Contract:		
25. Central Negros	560	DCCD
Interim Engineering:		
26. Batangas I	10	TAP

^aExtension of distribution system

*2nd Extension

HEADQUARTERS FACILITIES COMPLETED FOR 1978

<i>PROJECT</i>	<i>COST X 1000</i>	<i>CONTRACTOR/SCOPE OF WORK</i>
1. Leyte I	41	FA/Conversion Bldg Dorm.
2. Davao Norte	39	Completion of HQS/FA
3. Lanao Norte	64	Correction HQS/FA
4. Quezon	77	Site Dev. Hondague Subts./FA
5. Nueva Vizcaya	14	Const. Whse. & Office Imp./FA
6. Iloilo I	88	Renov. Site Imp./FA
TOTAL	323	

POWER PLANTS COMPLETED FOR 1978

<i>PROJECT</i>	<i>CAP KW</i>	<i>COST X 1000</i>	<i>CONTRACTOR/SCOPE OF WORK</i>
1. Isabela	5,000	799	JRL Const./Inst. of 2 Genset
2. Zambo. C.	6,720	1,359	Trigon/Inst. of 2 Genset
3. C. Negros		5,241	Triton Bldrs./Const. PP Fac.
4. C. Negros		28	FA/Overhauling 2600KW
5. Zambo. City		84	FA/Repair GM Genset
6. Leyte II		57	FA/Rehab. of CAT Genset
7. Marinduque	1,500	1,139	TOE/Inst. of 3 Genset
8. Samar I	600	226	TOE/Inst. of 2 Genset
9. Capiz	1,000	1,683	JRL Const/Inst. of 2 Genset
10. Or. Mindoro	5,850	2,002	VT Sarabia/Inst. 1-5500KW & 1-350KW Gensets
11. Occ. Mindoro	3,000	1,224	TOE/Inst. 2-1500KW
12. Occ. Mindoro		780	TOE/Power Plant Fac.
13. Mt. Province	500	335	TOE/Inst. 2-250KW
14. Leyte III		46	FA/Fab. Genset Parts
15. Nueva Vizcaya		50	FA/Rehab. of Gensets
16. Camarines N.		60	FA/Overhauling of spare parts
TOTAL		15,113	

TRANSMISSION SYSTEMS COMPLETED FOR 1978

<i>PROJECT</i>	<i>COST X 1000</i>	<i>CONTRACTOR/SCOPE OF WORK</i>
1. Lanao Norte	423	52nd E. Bde. PA/Ints. 69KV Aurora—Kapatagan
2. Lanao Sur	418	52nd E. Bde./Const. 69KV
TOTAL	841	

DISTRIBUTION SYSTEMS COMPLETED FOR 1978

PROJECT	NO. OF TOWNS	KM OF LINE	COST X 1000	CONTRACTOR/SCOPE OF WORK
1. Mindoro Or.	5	116	534	Aldaba Const.
2. Davao Norte	6	15	238	Power Consult.
3. Aklan		5	24	FA/Rehab. Old Sys.
4. Aklan			51	FA/Const. of 14.05 DX Line
5. Ilocos Sur			30	FA/Renov 3PH Line-Vigan
6. Nueva Ecija I			68	FA/Service Drop Inst.
7. Benguet	2	115	497	Powergen
8. Cavite	6	70	397	W. Red Engineering
9. Laguna	11	60	402	A. Diaz Engineering
10. Maguindanao	13	193	765	52nd E. Bde.
11. Basilan	3	64	319	Zatus Gen.
12. Zambo. City P-II	1	65	422	Power Const.
13. Agusan Norte		2	65	FA/Const. DX Line-Ampayon- Butuan
14. Agusan Norte			110	FA/Const. Subst. Fac.
15. Palawan	1	33	536	Triton
16. Lanao Sur	7		100	FA/DX Line Marawi
17. Lanao Sur	15		183	FA/P-II & III
18. Surigao Sur		10	29	FA/Lat. Const.
19. Catanduanes			70	FA/Line Const. & ROW-Gigmoto
20. Negros Or. P-IA	5	67	501	Cardinal
21. Negros Or. P-IB	1	30	182	Cardinal
22. Isabela	5 bos.	16	66	FA/Lat.
23. Isabela	5 bos.	24	47	FA/Santiago Pob.
24. Nueva Ecija II	6	178	26	FA/Llanera Lat.
25. Leyte II			96	FA/DX Line Palo
26. Leyte II			77	FA/Const. Ext. Ret.
27. Sorsogon I P-II	8	120	222	FA/Magallanes-Bulusan
28. La Union			22	FA/Palina Pago
29. Bulacan II			52	FA/Const. Subst. Repair of X-former
30. Cavite	1		141	FA/34.5 KV Double Circuit
31. Albay			142	FA/Tabago Subst.
32. Albay			84	FA/Inst. 5 MVA Legaspi
33. Leyte II			409	FA/Revamp Tacloban
34. Leyte I			143	FA/Sch II & ROW 69 KV
35. Leyte II			220	FA/Inst. of 5 MVA Subst.
36. Davao Sur	11	155	731	Leitz Zulueta
37. Occ. Mindoro	4	146	673	Artech
38. Camarines Norte	12	183	834	MS Navarro
39. Camarines Sur IV	6	65	340	MS Navarro
40. Maguindanao	12 bos.	88	88	FA/Midsayap (12 bos.)
41. Nueva Ecija II	6	178	877	A. Diaz
42. Samar II P-I	4	80	274	Powercon
43. Bulacan	5	128	876	Power Const.
44. Abra	5	80	569	Cervel Elect.
45. Albay			87	FA/Const. & Site Dev.
46. Bukidnon			92	FA/5 MVA Subst. Don Carlos
47. Marinduque	3	65	70	FA/Renov Boac-Mogpog
48. Ilocos Sur	12 bos.	132	200	FA/Lat. 12 bos.
49. Ilocos Norte			146	FA/Lat.
50. Quezon			90	FA/Fencing & Dec. Atimonan Subst.
51. Sapang Palay			96	FA/Inst. of 5 MVA Subst.
TOTAL			13313	

Equipment and Materials

	Amount Received (\$-M)		
	As of Dec. 77	CY 1978	As of Dec. 78
Equipment and Materials Received			
USAID	54	10	64
Japanese Reparations	7	—	7
Excess Property	5	—	5
Others	1	—	1
Total	67	10	77

	As of Dec. 77	CY 1978	As of Dec. 78
Delivery of Critical Materials			
Poles	219,272	103,140	322,412
Wires (km.)	64,672	15,456	80,128

Equipment and Materials Arrivals/Issuances In Revenue Ton For the year 1978		
<u>Source</u>	<u>Arrivals</u>	<u>Issuances</u>
International Foreign Bid	14,900	15,878
Excess Property	2,464	1,833
Local Purchase	3,386	3,386
Direct Project Purchase		
Total	20,750	21,097

STATUS OF POLES AND WIRES

As of December 31, 1978

COOPERATIVE	POLES DELIVERED			TRANSMISSION/DISTRIBUTION LINES (KM) DELIVERED		
	As of Dec. 77	CY 78	As of Dec. 78	As of Dec. 77	CY 78	As of Dec. 78
1. Ilocos Norte	11,454	4,990	16,444	2,807	462	3,269
2. Ilocos Sur I	8,232	2,039	10,271	1,897	433	2,330
3. Ilocos Sur II	—	—	—	—	42	42
4. Abra	4,779	1,219	5,998	1,473	299	1,772
5. Benguet	3,068	365	3,433	1,436	94	1,530
6. La Union	5,546	625	6,171	2,148	49	5,623
7. Mt. Province	150	—	150	155	3	158
8. Pangasinan I	4,320	433	4,753	1,477	62	1,539
9. Pangasinan II	1,025	2,271	3,296	415	250	665
10. Cagayan I	4,119	386	4,505	1,206	112	1,318
11. Cagayan II	—	—	—	—	3	3
12. Isabela I	3,855	394	4,249	1,485	56	1,541
13. Isabela II	—	316	316	—	3	3
14. Kalinga-Apayao	—	768	768	—	—	—
15. Nueva Vizcaya	245	605	850	114	30	144
16. Bataan	5,105	2,498	7,603	778	333	1,111
17. Bulacan I	4,260	250	4,510	2,546	147	2,693
18. Bulacan II	421	745	1,166	113	125	238
19. Nueva Ecija I	2,814	1,937	7,560	1,720	235	1,955
20. Nueva Ecija II	2,302	1,386	3,688	529	202	731
21. Pampanga	4,257	2,280	6,537	1,720	30	1,750
22. Tarlac	1,101	1,274	2,375	369	38	407
23. Zambales	2,114	700	2,197	1,529	198	1,727
24. PRESCO	320	—	320	136	641	777
25. Sapang Palay	1,007	769	1,776	388	25	413
26. Batangas I	5,726	547	6,273	2,255	151	2,406
27. Batangas II	—	1,104	1,104	—	102	102
28. Cavite	2,593	510	3,103	1,075	114	1,189
29. Laguna	3,147	1,292	4,439	612	161	773
37. Marinduque	1,500	959	2,459	384	45	429
31. Lubang	110	200	3100	2	58	60
32. Occ. Mindoro	1,867	962	2,829	900	53	953
33. Or. Mindoro I	2,313	1,572	3,885	1,384	91	1,475
34. Or. Mindoro II	—	606	606	—	17	17
35. Palawan	3,431	—	3,431	577	48	625
36. Quezon I	—	8,505	8,505	—	2,619	2,619
37. Rizal I (Talim)	990	360	1,350	379	43	422
38. Rizal II	140	1,548	1,678	319	110	429
39. Albay	7,142	1,340	8,482	1,959	114	2,073
40. Caramines Norte	3,305	4,718	5,023	780	138	918
41. Camarines Sur I	3,420	140	3,560	1,037	77	1,114
42. Camarines Sur II	—	2,007	2,007	64	105	169
43. Camarines Sur III	2,115	2,600	4,715	198	266	464
44. Camarines Sur IV	2,000	302	2,302	208	192	400
45. Catanduanes	4,037	749	4,786	1,069	72	1,141
46. Sorsogon I	4,856	837	5,693	816	81	897
47. Sorsogon II	1,950	927	2,877	193	217	410
48. Masbate	—	—	—	—	38	38

STATUS OF POLES AND WIRES

(As of December 31, 1978)

COOPERATIVE	POLES DELIVERED			TRANSMISSION/DISTRIBUTION LINES (KM) DELIVERED		
	As of Dec. 77	CY 78	As of Dec. 78	As of Dec. 77	CY 78	As of Dec. 78
49. Aklan	5,034	—	5,034	1,760	140	1,900
50. Antique	4,211	1,136	5,347	724	35	759
51. Capiz	8,163	1,292	9,455	2,140	77	2,217
52. Iloilo I	6,241	1,719	7,960	1,955	85	2,040
53. Iloilo II	2,224	2,210	4,434	456	279	735
54. Central Negros	1,508	856	2,364	157	325	482
55. VRESCO	607	—	607	914	25	939
56. Negros Occ. III	—	1,000	1,000	—	5	5
57. Bohol I	4,381	—	4,381	892	47	939
58. Cebu I	3,057	2,656	5,713	555	92	64
59. Negros Or. I	4,090	1,015	5,105	738	119	857
60. Negros Or. II	—	910	910	2	38	40
61. DORELCO	7,005	1,180	8,185	1,962	150	2,112
62. Leyte II	2,529	—	2,529	653	47	700
63. Leyte III	900	1,074	1,974	38	168	206
64. Leyte IV	903	—	903	—	14	14
65. So. Leyte	4,579	378	4,957	747	18	765
66. Samar I	897	1,288	2,185	313	188	501
67. Samar II	2,805	350	3,155	335	101	436
68. Alicia	147	—	147	162	9	171
69. Basilan	2,929	—	2,929	294	159	453
70. Cagayan de Sulu	453	—	453	147	5	152
71. Sulu	1,982	—	1,982	205	14	219
72. Tawi-Tawi	628	—	628	143	20	163
73. Zamboanga City	3,958	—	3,958	1,473	100	1,573
74. Zamboanga Norte	—	3,637	3,637	26	266	292
75. Zamboanga Sur I	2,523	1,021	3,544	490	306	796
76. Agusan Norte	256	2,586	2,842	111	287	398
77. Bukidnon I	—	1,026	1,026	5	173	178
78. Misamis Occ. I	1,623	2,544	4,167	112	381	493
79. Misamis Occ. II	122	2,829	2,951	73	398	471
80. Misamis Or. I	557	520	1,077	468	89	557
81. Misamis Or. II	132	2,228	2,360	45	327	372
82. Surigao Norte	—	339	339	—	—	—
83. Davao Norte	4,424	2,597	7,021	1,512	231	1,743
84. Davao Sur	2,908	859	3,767	986	193	1,179
85. Cotabato Sur I	136	2,134	2,270	145	195	340
86. Cotabato Sur II	—	1,992	1,992	—	237	237
87. Sultan Kudarat	—	2,840	2,840	—	187	187
88. Surigao Sur	—	1,955	1,955	—	834	834
89. Maguindanao	3,696	428	4,124	832	201	1,033
90. Lanao Norte	4,213	284	4,497	1,697	59	1,756
91. Lanao Sur	4,862	465	5,327	1,727	47	1,774
82. North Cotabato	—	767	767	—	—	—
51st Eng'g. Bde.	—	—	—	787	—	787
N P C	644	—	644	—	—	—
N E A	—	—	239	—	1	240
T o t a l	219,272	103,140	322,412	64,672	15,456	80,128

TRAINING

	As of Dec. 77	CY 1978	As of Dec. 78
Training Activities Conducted	782	274	1,056
No. of Participants Trained	28,153	9,184	37,337

1978 Training Activities	Number
Field Training	84
In-house Training	28
Electrical Trades	79
Safety Training	82

	As of Dec. '77	CY '78	As of Dec. '78
Boy scouts trained	639	291	930
Unemployed adults/ out-of-school youth trained (NETTP)	6,323	1,568	8,044

Aside from its regular training courses for co-op and NEA personnel, the NEA also conducts seminars aimed towards providing employment opportunities. The scout electricians' course trains boy scouts to be barangay electricians. The National Electrical Trades Training Program (NETTP) trains unemployed adults and out-of-school youth to be linemen, electricians, and plant operators. Around 85% of these trainees have been employed by electric co-ops.

ORGANIZATION

Co-ops Registered

As of
Dec. 77
100

CY
1978
10

As of
Dec. 78
110

REGISTERED ELECTRIC COOPERATIVES

<i>Cooperative</i>	<i>Date of Registration</i>	<i>Cooperative</i>	<i>Date of Registration</i>
1. Talim (Rizal I)	31 Aug 70	56. Alicia	21 Jan 75
2. VRESCO	1 Feb 71	57. Tarlac	24 Jan 75
3. MORESCO I	1 Feb 71	58. Tawi-Tawi	25 Jan 75
4. Iloilo I	10 Jun 71	59. Lubang	20 Feb 75
5. Capiz	16 Jun 71	60. Central Negros	24 Feb 75
6. Leyte I (DORELCO)	2 Jun 71	61. Cagayan de Sulu	4 Apr 75
7. Ilocos Norte	7 Jul 71	62. Basilan	24 May 75
8. Surigao del Sur	20 Jul 71	63. Davao del Sur	1 Jun 75
9. La Union	6 Aug 71	64. Camarines Sur II	10 Aug 75
10. Bohol I	11 Aug 71	65. Samar II	23 Aug 75
11. Southern Leyte	27 Aug 71	66. Maguindanao	4 Sep 75
12. South Cotabato I	31 Aug 71	67. Nueva Ecija II	22 Sep 75
13. Lanao del Sur	7 Sep 71	68. Central Pangasinan	6 Oct 75
14. Lubang	8 Sep 71	69. Iloilo II	18 Oct 75
15. Sariaya Community	14 Sep 71	70. Camarines Norte	23 Oct 75
16. Davao del Norte	24 Sep 71	71. Leyte II	26 Oct 75
17. First Catanduanes	28 Oct 71	72. Leyte III	30 Oct 75
18. Cagayan I	25 Nov 71	73. Sultan Kudarat	4 Nov 75
19. Isabela I	24 Mar 72	74. Leyte IV	7 Nov 75
20. Abra	28 Mar 72	75. Camarines Sur III	2 Dec 75
21. Cebu I	22 Apr 72	76. Rizal II	9 Jan 76
22. Quezon I	24 Apr 72	77. Misamis Occidental II	2 Jan 76
23. Aklan	25 Apr 72	78. Bulacan II	28 Aug 76
24. Bukidnon I	13 May 72	79. MORESCO II	2 Oct 76
25. North Cotabato	16 May 72	80. Agustan del Norte	12 Feb 77
26. Lanao del Norte	27 May 72	81. Camarines Sur IV	18 Feb 77
27. Batangas I	14 Jun 72	82. Negros Oriental II	2 Apr 77
28. Negros Oriental I	14 Jun 72	83. Sorsogon II	14 Apr 77
29. Zambales	30 Jun 72	84. South Cotabato II	7 May 77
30. Albay	9 Aug 72	85. Kalinga-Apayao	15 May 77
31. Misamis Occidental I	18 Aug 72	86. Ifugao	16 May 77
32. Zamboanga del Norte	23 Aug 72	87. Quirino	7 Jul 77
33. Zamboanga del Sur	25 Aug 72	88. Bukidnon II	26 Jul 77
34. Nueva Vizcaya	26 Sep 72	89. Batangas II	12 Aug 77
35. Western Pangasinan	28 Sep 72	90. Mindoro Oriental II	15 Aug 77
36. Camarines Sur I	27 Nov 72	91. Agusan del Sur	26 Aug 77
37. Antique	10 Dec 72	92. Surigao del Norte	24 Sep 77
38. Pampanga	20 Dec 72	93. Samar II	3 Oct 77
39. Sorsogon	17 Jan 73	94. Masbate	23 Nov 77
40. Mindoro Oriental I	16 Feb 73	95. Eastern Samar	9 Dec 77
41. Sulu	24 Feb 73	96. Leyte V	21 Dec 77
42. Bulacan I	11 Mar 73	97. Cebu II	28 Dec 77
43. Marinduque	27 Mar 73	98. Camiguin	28 Dec 77
44. First Laguna	3 Apr 73	99. Siquijor	29 Dec 77
45. First Cavite	23 Jun 73	100. Davao Oriental	30 Dec 77
46. Biliran	6 Jul 73	101. Cagayan II	20 Jan 78
47. Bataan	8 Aug 73	102. Romblon	6 Feb 78
48. Benquet	5 Oct 73	103. Negros Occidental	25 Feb 78
49. Nueva Ecija I	24 Nov 73	104. Isabela II	25 Feb 78
50. Ilocos Sur	24 Jan 74	105. Bohol II	13 May 78
51. Palawan	25 Jan 74	106. Pangasinan III	20 May 78
52. Zamboanga City	23 Feb 74	107. Quezon II	11 Aug 78
53. Samar I	27 Feb 74	108. Mactan	12 Aug 78
54. Mindoro Occidental	25 Mar 74	109. Bantayan Island	29 Sep 78
55. Mt. Province	25 May 74	110. Camotes Island	8 Nov 78

FEASIBILITY STUDIES

	As of Dec. 77	CY 1978	As of Dec. 78
Completed	113	4	117

Feasibility studies completed for 1978

1. Batangas III
2. Iloilo III
3. Mactan
4. Pampanga II

CO-OP NEWSLETTERS

	As of Dec. 77	CY 1978	As of Dec. 78
No. of Co-ops with Newsletters	58	10	68

New Publications in 1978

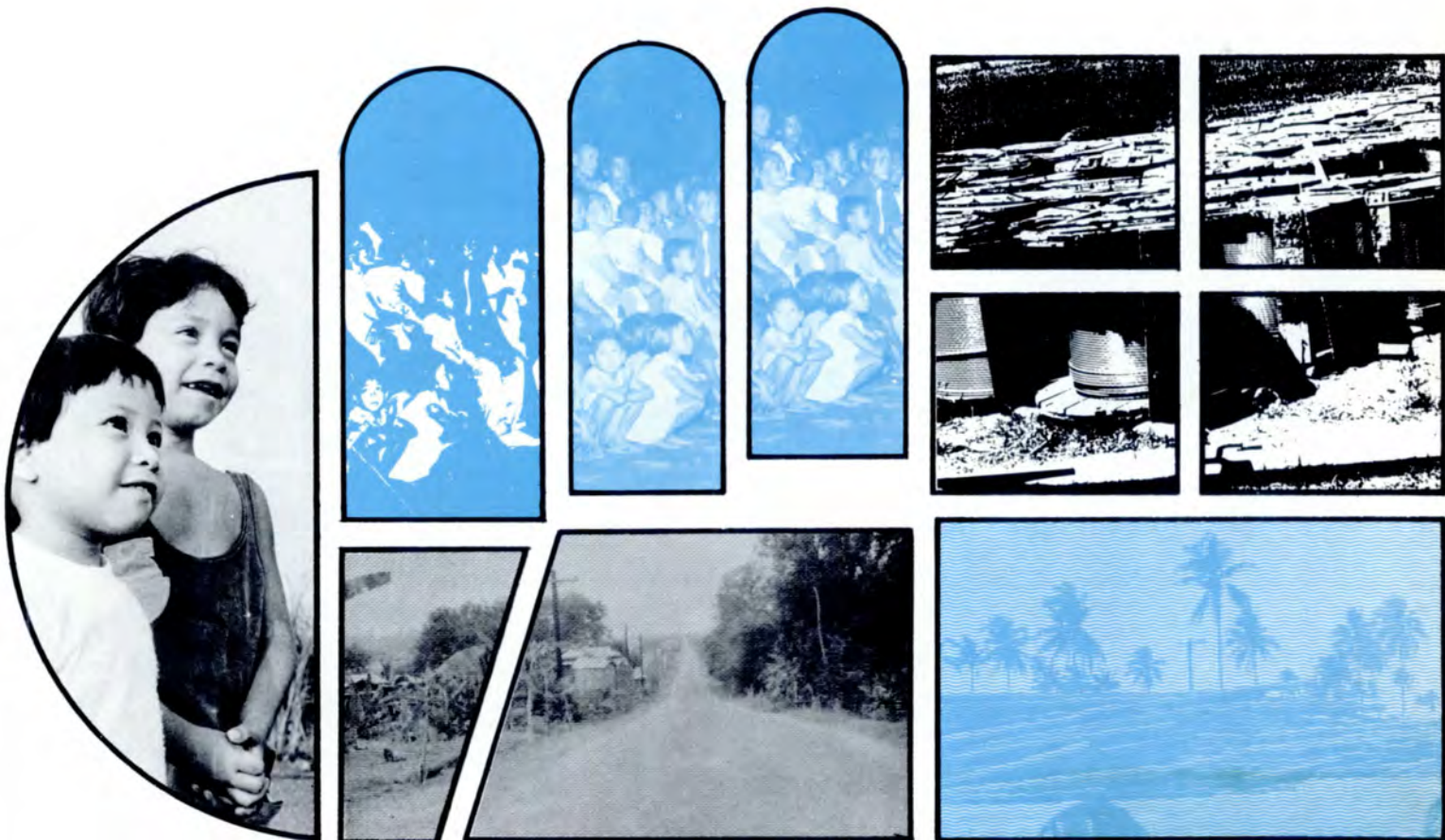
<i>Cooperative</i>	<i>Title of Publication</i>
1. Isabela II	ISELCO II Newsletter
2. Bulacan II	Hasik
3. Batangas II	Kumingtang
4. Camarines Sur III	Hamudiong
5. Camarines Sur II	Sirang
6. Bohol I	Tigbanwag
7. Leyte IV	Dan-ag
8. Misamis Occidental II	MOELCI II Newsletter
9. Agusan del Norte	Dagitab
10. North Cotabato	Silak

**RANKING OF ELECTRIC COOPERATIVES
BY HOUSE CONNECTIONS
(As of December 31, 1978)**

<i>Cooperative</i>	<i>House Connections</i>	<i>Cooperative</i>	<i>House Connections</i>
1. Pampanga	62,590	45. Negros Oriental II	6,702
2. Nueva Ecija I	32,652	46. Sapang Palay	6,550
3. Ilocos Norte	31,748	47. Mindoro Oriental I	5,853
4. Bulacan I	30,965	48. Agusan del Norte	5,828
5. First Cavite	30,504	49. First Catanduanes	5,405
6. Bataan	29,523	50. Camarines Sur IV	5,334
7. Central Pangasinan	26,702	51. Sorsogon II	5,204
8. Ilocos Sur	26,252	52. Sorsogon I	5,044
9. Albay	24,508	53. Maguindanao	4,995
10. La Union	22,734	54. Rizal I (Talim)	4,821
11. Central Negros	21,744	55. Bohol I	4,764
12. Zambales	20,628	56. South Cotabato I	4,139
13. Batangas I	19,972	57. Mindoro Occidental	3,526
14. Tarlac	19,624	58. Cebu I	3,459
15. Benguet	19,268	59. Samar II	3,030
16. VRESCO	17,112	60. Southern Leyte	3,004
17. Batangas II	16,186	61. Basilan	2,923
18. First Laguna	15,663	62. Misamis Occidental I	2,841
19. Nueva Ecija II	15,621	63. Sulu	2,841
20. Zamboanga City	14,865	64. Palawan	2,836
21. Capiz	13,962	65. PRESCO	2,766
22. Quezon I	12,592	66. Antique	2,672
23. Camarines Sur II	12,028	67. San Jose City	2,620
24. Leyte II	11,661	68. Iloilo II	2,410
25. Leyte I (DORELCO)	11,395	69. Negros Occidental I	2,266
26. Isabela I	11,240	70. Surigao del Norte	2,200
27. Iloilo I	10,902	71. Samar I	2,051
28. MORESCO I	10,369	72. Marinduque	2,020
29. Lanao del Norte	10,137	73. Leyte III	1,731
30. Lanao del Sur	9,949	74. Sultan Kudarat	1,700
31. Camarines Norte	9,284	75. Nueva Vizcaya	1,656
32. Bulacan II	8,825	76. MORESCO II	1,239
33. Cagayan I	8,541	77. North Cotabato	980
34. Aklan	8,106	78. Cagayan II	959
35. Misamis Occidental II	8,037	79. South Cotabato II	824
36. Rizal II	7,951	80. Leyte IV	801
37. Davao del Sur	7,862	81. Infanta	764
38. Davao del Norte	7,861	82. Tawi-Tawi	718
39. Abra	7,817	83. Mt. Province	625
40. Camarines Sur I	7,575	84. Lubang	560
41. Zamboanga del Sur	7,271	85. Bukidnon I	520
42. Western Pangasinan	7,118	86. Alicia	442
43. Camarines Sur III	6,799	87. Zamboanga del Norte	350
44. Surigao del Sur	6,783	88. Cagayan de Sulu	234



HIGHLIGHTS



INCREASED CAPITALIZATION

On May 2, 1978, Presidential Decree No. 1370 was signed, amending section 6 of Presidential Decree No. 269 which pegged NEA's capitalization at P1 billion. The new decree increased the authorized capital stock of NEA to P2 billion, wholly subscribed by the Philippine government.

FOREIGN LOANS

As of December 31, 1978, foreign indebtedness contracted by the Philippine government for the rural electrification program amounts to \$219.7 million with the signing of four loans from USAID, World Bank, Overseas Economic Cooperation Fund (OECF) of Japan and the Federal Republic of Germany. The World Bank loan is the single largest loan ever extended by the Bank, and the first financial assistance ever given by the Bank to rural electric cooperatives.

1978 FOREIGN LOANS SIGNED

Source	: Amount	: Purpose	: Repayment
	:	:	: Terms
USAID	\$8.4 million	To finance the foreign exchange costs of the program	40 years with 10-year grace period 2% interest per annum for the first 10 years 3% interest per annum thereafter
World Bank	\$60 million	To finance the completion of backbone systems by 1980	20 years with 5-year grace period 7.45% interest per annum
OECF	\$52 million	To finance the electrification of Cagayan Valley	25 years with 7-year grace period on principal 3.25% interest per annum
Federal Republic of Germany	DM40 million (approximately \$21.3 M)	To finance the electrification of 7 islands in the Visayas	20 years with 5-year grace period for DM 25 M 8 years to pay for DM 15 M 3% interest per annum



CO-OP AMORTIZATION PAYMENTS

During the year 1978, the NEA started to receive amortization payments from electric co-ops which have begun payment in accordance with their loan contracts providing that the first amortization be made five years after the first energization.

The electric co-ops which started paying amortizations are those in Albay, Bataan, Sapang Palay, Zamboanga City, Pampanga, Leyte (Don Orestes Romualdez Electric Cooperative, Inc.), Ilocos Norte, and Abra.



CO-OP TASK FORCES

The past year once again demonstrated the effectivity of inter-cooperative effort in dealing with problems which require immediate solution. Of the multi-cooperative endeavors launched, DAMAYAN '78 was the most outstanding.

Nueva Ecija was one of the provinces badly hit by typhoon Kading. In response to the President and First Lady's call for cooperation in the face of a crisis, eleven neighboring electric co-ops assisted the two Nueva Ecija electric co-ops in rehabilitating their destroyed lines. Electric service was restored in 14 days.



MINI-HYDRO PROGRAM

During the year, the NEA pilot mini-hydro plant was built and made operational in Baco, Mindoro Oriental. This 18-KW generating unit initially served three barrios and a Mangyan settlement.

The inter-agency task force on mini-hydro also made a nationwide inventory of all streams, rivers, irrigation canals, and flowing waterways which can be tapped for power generation. Surveyed were some 4,539 potential sites. Of these, 474 were so far found to be feasible with an estimated power potential of about 794,000 KW.



	<i>As of Dec. 77</i>	<i>CY 1978</i>	<i>As of Dec. 78</i>
Mini-Hydro			
Project Feasibility Studies	—	3	3
Operational Projects	—	3	3
No. of Barangays Served	—	10	10
No. of Consumers Benefited		450	450



SCHOOL ELECTRIFICATION

The school electrification project continued to expand its benefits. To date, some 8,008 adults and out-of-school youth have graduated from evening vocational courses while 300,687 other students have enrolled for formal high school and collegiate courses offered during night-time.

The school water systems project has also gone a long way toward providing school children and teachers with safe, potable water. As a result of these water systems, school authorities have also been encouraged to launch projects like the green revolution, tree-planting and income-generating projects.

TANGLAW is being implemented in coordination with the Ministry of Education and Culture, Ministry of Public Works, Transportation and Communication, Ministry of Health, and Ministry of Local Government and Community Development.

Tanglaw	As of Dec. 77	CY 1978	As of Dec. 78
No. of Schools Energized	1,326	487	1,813
No. of Schoolrooms Energized	10,393	7,633	18,026
No. of Schools with Water Systems		137	137

INTERNATIONAL TRAINING CENTERS

To facilitate the conduct of international seminars on rural electrification, the NEA intends to set up two international training centers in La Union and Misamis Oriental. Funds for the construction of these centers have been put up by the USAID which granted \$250,000 and NEA which provided P2.8 million. These training centers are designed to house live-in students and will be equipped with learning facilities.

To date, nine international seminars on rural electrification have been conducted in the country for some 131 foreign participants.

INTERNATIONAL AWARD FOR COL. DUMOL

NEA Administrator Pedro G. Dumol became one of the two recipients of the international awards on rural electrification started by the US National Rural Electric Cooperative Association in 1978. The other awardee was Clyde T. Ellis, NRECA General Manager emeritus.

Col. Dumol was cited for his outstanding contributions to rural electrification, not only in the Philippines, but in other developing countries as well. He pioneered in assisting developing countries in their own rural electrification program. Under his leadership, international training programs were conducted for the electrification officials of Indonesia, Pakistan, Bangladesh, Papua New Guinea, India, Thailand, Jordan, and Bolivia.

Administrator Pedro G. Dumol is shown receiving the International Award from NRECA President Gene Porter. Looking on is NRECA General Manager Robert Partridge.



INTERNATIONAL TRAINING

	As of Dec. 77	CY 1978	As of Dec. 78
No. of Training Activities Conducted	5	4	9
No. of Participating Countries	9	—	9
No. of Participants	82	49	131

1978 TRAINING ACTIVITIES CONDUCTED IN THE PHILIPPINES FOR INTERNATIONAL PARTICIPANTS

I. Seminar-Workshop on Engineering and Management Aspects for Electric Co-op Developers

Date	:	June 9-30, 1978
Participating Country	:	Indonesia
No. of Participants	:	19
Electric Co-ops Visited	:	BATELEC I, BECO I, BENECO, CAGELCO I, INEC, ISECO, ISELCO I, LUELCO and TARELCO

II. Seminar on Management for Electric Co-op Personnel

Date	:	June 12-20, 1978
Participating Country	:	Bangladesh
No. of Participants	:	5
Electric Co-ops Visited	:	BECO, NEECO I

III. Observation-Briefing on Rural Electrification

Date	:	October 16-25, 1978
Participating Country	:	Bangladesh
No. of Participants	:	5
Electric Co-ops Visited	:	BENECO, LUELCO and TARELCO

IV. Orientation on Rural Electrification for Officials of the Government of Indonesia

Date	:	November 14-21, 1978
Participating Country	:	Indonesia,
No. of Participants	:	13
Electric Co-ops Visited	:	BENECO, CENECO, LUELCO, TARELCO and VRESCO

NATIONAL ELECTRIFICATION ADMINISTRATION
ACTUAL CASH FLOW STATEMENT *
(In Thousand Pesos)

	CY 1977	CY 1978
<i>Cash Inflow</i>		
Beginning Balances		
Cash on Hand and In Bank	6,348	8,488
Cash in Banks — Co-op Trustee	17,461	32,019
Add:		
Loan Amortizations	680	4,608
Interest on Deposits	366	1,149
Equity Contributions		
National Government	214,874	199,874
Ministry of Energy	—	30,000
Temporary Investment	—	13,500
Interest on Investment	—	195
Total Cash Available	239,729	293,833
<i>Cash Outflow</i>		
Operating Expenses		
NEA In-House	19,702	23,777
Consultants	1,168	1,207
Centralized Warehouse	—	64
RETO Centers	—	—
Equity Contribution		
Ministry of Human Settlements	—	2,000
Debt Service		
French Loan	—	8,000
World Bank (IBRD)	—	—
Loan Releases	177,390	207,201
Other Cash Outflow		
Temporary Investment	—	35,065
Fishermen's Assistance Program	202	—
Elect. Coop. Mutual Protection Fund	34	—
R E T O	136	75
TANGLAW	296	—
Power Use	294	50
Total Cash Outlay	199,222	277,439
Cash Balance, End	40,507	16,394

*This cash flow is for peso funds only. This does not include foreign loan funds which come in terms of materials and services.

NEA EXECUTIVE OFFICIALS

1978

LEONARDO G. COLOSO

Acting Administrator

LEONARDO G. COLOSO

Deputy Administrator for
Administration & Cooperatives
Development

ALBERTO U. FILART

Deputy Administrator for
Finance & Franchises

ARTURO M. ALMEDA

Deputy Administrator for
Engineering & Materials

EVELITO A. ELENTO

Director for Administration

ROMEO M. SULIT

Director for Cooperatives
Development

PHILIP O. CHAN

Director for Finance

EDMUNDO J. BULATAO

Director for Franchises

MANUEL L. STA. MARIA

Director for Engineering

GUILLERMO V. SANTOS

Director for Equipment and
Materials

ESTER R. AGUILUZ

Corporate Auditor

1979

PEDRO G. DUMOL

Administrator

DAVID D. AGUILA

Deputy Administrator for
Administration & Cooperatives
Development

VICENTE T. MACAPAGAL

Deputy Administrator for
Finance & Franchises

ZENAIDA S. SANTOS

Deputy Administrator for
Engineering & Materials

JORGE T. ATENCIO

Director for Administration

EDITA S. BUENO

Director for Cooperatives
Development

ERNESTO R. MADRIAGA

Director for Finance

HERNANDO A. ESGUERRA

Director for Franchises

GUILLERMO V. SANTOS

Director for Engineering

SOCRATES L. ALATTICA

Director for Equipment and
Materials

ESTER R. AGUILUZ

Corporate Auditor